

**[ABSTRACT]**

A Eu-doped CsBr-type storage phosphor screen or panel has been  
5 disclosed, providing ratios of ultraviolet luminescence intensities of  
at least 10/9 after having been exposed to radiation having a  
wavelength in the range from 150 to 400 nm, measured at same sites  
without and with pretreatment exposure of said storage phosphor screen  
or panel with short ultraviolet radiation in the range from 150 to 300  
10 nm and having an energy of 10 mJ/mm<sup>2</sup>, as well as a method of producing  
a stimulable phosphor screen or panel, characterized in that during or  
after at least one of the manufacturing steps a radiation exposure  
treatment is given with radiation sources emitting short ultraviolet  
radiation in the range from 150 to 300 nm with an energy of at least 10  
15 mJ/mm<sup>2</sup>.